

Newborn Screening Quality Assurance Program

Quality Control Specimen Certification
Lysophosphatidylcholines – X-ALD
Set 2
July 13, 2015

Analysis Method: LC-MS/MS

ENRICHMENT LEVELS (ENDOGENOUS LEVELS NOT INCLUDED), $\mu\text{MOL/L}$ WHOLE BLOOD

<i>Analyte</i>	<i>Lot</i>	<i>Base/Low</i>	<i>Lot</i>	<i>Low</i>	<i>Lot</i>	<i>High</i>	<i>Expiration Date</i>
24-LPC	14101	0.0	14102	1.0	14103	5.0	April 30, 2016
26-LPC	14101	0.0	14102	1.0	14103	5.0	April 30, 2016

*Tetracosanoyl lysophosphatidylcholine

**Hexacosanoyl lysophosphatidylcholine

ANALYTICAL INFORMATION

Lot Numbers, Mean Values (\bar{x}), and 95% Confidence Limits (CL)							
Analyte	Lot	Base/Low	Lot	Low	Lot	High	Expiration Date
24-LPC	14101	$\bar{x} = 0.06$ CL = 0.03 - 0.10	14102	$\bar{x} = 0.88$ CL = 0.55 - 1.22	14103	$\bar{x} = 4.16$ CL = 3.04 – 5.28	April 30, 2016
26-LPC	14101	$\bar{x} = 0.05$ CL = 0.02 - 0.07	14102	$\bar{x} = 1.03$ CL = 0.73 - 1.34	14103	$\bar{x} = 4.90$ CL = 3.96 – 5.84	April 30, 2016

*Tetracosanoyl lysophosphatidylcholine

**Hexacosanoyl lysophosphatidylcholine

Note: The values provided in the above tables are for reference use only. The mean value and confidence limits (CL) are determined by CDC for each Quality Control (QC) lot. Each participating laboratory must establish its own mean values and CL for its test method with these QC materials. Temporary estimates of mean values and CL can be determined after 10 successive, independent measurements. *Slazyk WE, Hannon WH. Quality Assurance in the Newborn Screening Laboratory. In: Therrell BL Jr, editor. Laboratory methods for neonatal screening. Washington (DC): American Public Health Association, 1993:23-46.*